## APPENDIX N BULK MILK TANKER SCREENING TEST FORM

## Charm SL (raw bovine and caprine) and SL-6 (raw bovine) Beta-Lactam Tests

## GENERAL REQUIREMENTS

1.	See	Appendix N General Requirements form items 1-8 & 15	
		SAMPLES	
2.	See	Appendix N General Requirements (GR) form item 9	
		APPARATUS & REAGENTS	
3.	Equ:	ipment	
	a.	Strip Incubator, 56±1°C SL Beta-lactam test; 45±2°C SL-6 Beta-lactam Test	
		1. Level. Temperature checked daily (day of use), records maintained	
		2. Thermometer, for each incubator (App N GR #3)	
		3. Lid closed (spring ajar), when not running tests	
		4. Incubator Temperature:	
	b.	ROSA Reader or equivalent with print out or download of data. ROSA Reader V1.07 or higher for SL-6, or equivalent capable of reading 3 line test, Manual Available Serial Number:	
		1. Calibrators - 2 for each assay- 2 lines for SLBL and/or 3 lines for SL-6.	
		Range(s) Two Line: Low: High  Three Line: Low: High:	
		2. Calibrator serial numbers match ROSA reader SN	
		3. Do not proceed if out of range. Manufacturer should be contacted for corrective actions	
		4. Printer or computer link for hardcopy download	
		5. Records maintained	

	c.	(see App. N GR item 7)	
	d.	Or single use 300 $\mu L$ poly-pipet with overflow bulb to accurately measure amount of sample, supplied by manufacturer (screening only)	
	e.	Optional Timer - if not built into Incubator	
	f.	Optional Centrifuge (Not applicable to SL-6 Beta-lactam Test)- mini or equivalent (1200- 2000 x g) for frozen controls	
4.	Rea	gents	
	a.	Test Strips	
		Lot #: Exp. Date: Rec'd: QC Date:by	
	b.	Positive Control	
		1. Lyophilized or tablet 5 ppb Penicillin G for SL Beta-lactam Test	
		Lot #: Exp Date:	
		2. Lyophilized or tablet 5ppb Penicillin G/10ppb cloxacillin for SL-6 Beta-lactam Test	
		Lot # Exp. Date:	
	c. :	Negative Control -	
		1. Previously negative tested raw milk (item 5b)	
5.	Rea	gent stability	
	a.	SL-6 reagents received refrigerated.	
	b.	Reagents stored at 0-4.4 $^{\circ}$ C, maintain no longer than manufacturer's expiration date	
	c.	Negative Control - raw milk tested -600 or more negative with SL Beta-lactam Test or -400 or more negative with SL-6 Beta-lactam	
		Test Value: Do not proceed if out of range.	
		1. Used within 72 hours when maintained at $0-4.4^{\circ}\mathrm{C}$	
		2. Test for suitability each time, records maintained	

		3.	Or, frozen immediately (within 6 hours) and stored in a non-frost-free freezer, or in a styrofoam container in a frost free freezer, for no more than 2 months at -15°C or below	
			Lab Date prep: Lab Exp. Date:	
			a. For SLBL <b>ONLY,</b> not applicable to SL-6 thaw, centrifuge 3 minutes, cool and use within 24 hours. Do not refreeze.	
	d.		itive Control- Manufacturer supplied, maintain no ger than manufacturer's expiration date	
		1.	Reconstituted with Negative Control (raw milk), used within 48 hours when maintained at $0-4.4^{\circ}\text{C}$	
		2.	Test for suitability each time prepared and/or day of use, must produce +400 or greater reading, records maintained.	
			Test Value: Do not proceed if out of range.	
		3.	Or, frozen immediately (within 6 hours) and stored in a non-frost-free freezer, or in a styrofoam container in a frost-free freezer, for no more than 2 months at -15°C or below	
			Lab Date prep: Lab Exp. Date:	
			a. Thaw, centrifuge 3 minutes( not applicable to SL-6 Beta-lactam Test), cool and use within 24 hours. Do not refreeze.	
			TECHNIQUE	
6.	Dai	ly P	Performance and Operation Check	
	a.	See	App. N GR item 10)	
	b.	fun	der Versions 1.5 and higher, use Escape 5 reader ction to enter performance monitor mode of reader- erence manual for directions	
	c.	Che	ck Calibrators, records maintained	
	d.	mon pri man	trols give appropriate readings in performance itoring mode (reader version 1.05 and higher) or to any sample analysis. If out of range, ufacturer should be contacted for corrective ion, 800-343-2170.	
	e. :	Do n	ot proceed if out of range.	

7.	Tes	t Procedure	
	a.	Label Test Strips, one for each test sample and each control	
	b.	Place strip into appropriate incubator, avoid crushing sample compartment. For multiple samples, complete steps b-f for each sample/control, before starting test of next sample.	
	c.	While holding strip flat, peel (to 'peel to here' line) back plastic to expose sample pad compartment	
	d.	Mix milk sample or control 25 times in seven seconds with a 1 ft movement or vortex control for 10 seconds when appropriate	
	e.	Slowly pipette 300 $\mu L$ sample to either side of the sample pad compartment(if applicable, use etched line on incubator as location guide). Avoid contact of sponge with pipet tip.	
		1. Draw up sample, avoiding foam and bubbles.(with 300ul calibrated pipet only pre-wet tip by expelling sample and drawing up again)	
		2. Or for <b>Screening only</b> use poly pipet	
		<ul> <li>a. While holding poly pipet almost vertically with bulb side pointing down, depress top bulb and insert into sample (below foam).</li> </ul>	
		<ul> <li>b. Release bulb and sample should completely fill pipet shaft and overflow into bottom % of lower bulb</li> </ul>	
		c. Pipet sample in pipet shaft by depressing top bulb only into test strip while leaving excess sample in overflow bulb	
	f.	Re-seal plastic firmly around sample pad compartment	
	g.	Repeat Step 7b-f for each sample and/or control test strip in incubator	
	h.	Close and latch incubator cover. If no automatic timer in incubator, set timer for 8 minutes, do not exceed 10 minutes	
	i.	At end of incubation, visually inspect C (Control) line, an absent C line or a partial C line or an indistinct C line indicates an invalid test and the sample/control must be re-tested	

	J	appropriate channel.	
		1. SLBL slow blink for SL Beta-lactam Test	
		2. SLBL rapid Blink for SL-6 Beta-lactam Test	
	k.		
8.	Int	erpretation with ROSA Reader	
	a.	If there is a negative or zero reading on the reader, sample is <b>Negative (NF)</b>	
	b.	If there is a positive reading on the reader, sample is an Initial Positive	
9.	App Pos	ification of Initial Positive Samples (see . N GR item 11); Confirmation of Presumptive itive Samples (see App. N GR item 12); and ducer Traceback (see App. N GR item 13)	
10.	Rep	orting (see App. N GR item 14).	
	a.	Reader tapes or computer print outs maintained	